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oringe in 1999, he ran union racine sulting services that help companies Resources Group, a Fort that the See MESSMAN, Page E-2

### FROM THE If Kennecott Utah Copper is successful in converting its Bingham Canyon Mine to an underground operation, it plans to use a mining method known

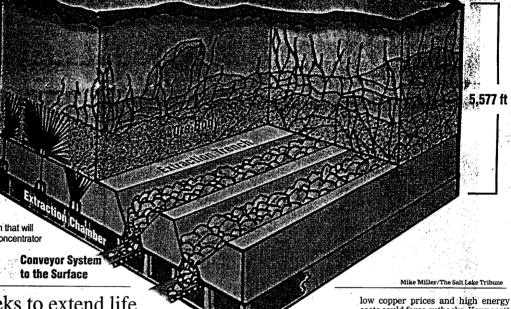
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Bruce Farmer president and CEO of Kennecott Litah Copper, wants to take the mining operation underground in the future.

### as "block caving. **How It Works:**

- Miners will carve out huge extraction chambers beneath the ore bodies.
- Using explosives, they will blast extraction trenches or funnel-shaped extraction points in the rock above
- The copper-bearing ore will fall from the force of gravity and be crushed under its own weight, tumbling through the extraction points into the chamber below. It will then be readied for loading and transport to the surface.

■ Kennecott plans to used an underground conveyor system that will carry the ore 3.5 miles to its concentrator on the surface.



Kennecott seeks to extend life of copper mine by going underground

BY STEVEN OBERBECK

THE SALT LAKE TRIBUNE

ennecott Utah Copper's long-term future — if there is one — lies underground. After more than 90 years of open-pit mining at its Bingham Canyon site on the eastern slopes of the Oquirrh Mountains. Kennecott is slowly running out of easy-to-get copper ore. It will be gone in little more than a decade.

The options: shut down or go

underground. Within two years, Utah's copper giant hopes to begin long-term planning to change its ore extraction method from open pit to underground mining, said Bruce Farmer, president and chief executive officer of Ken-

necott Utah Copper.
"The big challenge is convincing owner [Kennecott's parent company Rio Tinto] to fund the \$1 billion in upfront development costs," Farmer said. "It is a steep investment for any company to contemplate.'

More than 30 million years ago, hot magma from deep within the earth's crust welled up beneath the present site of the Bingham Canyon Mine and deposited copper ore in the shape of a

huge tooth.

Beginning in 1906 with the start of open-pit mining on the site, miners slowly chipped away at the crown of the molar. By 2012, only the copperrich roots of the ore body will remain.

Kennecott geologists estimate the roots of the deposit contain a combined 269 million tons of copper ore. The company may be able to mine the ore profitably using a technique known as "block caving," Farmer

"You go in beneath the ore body

and undercut it, letting it cave in. and undercut it, letting it cave in.
Then you take out the crushed rock on
conveyor belts," Farmer said.
Underground mining will represent a massive change in the way the

company works. But right now, Farmer said, Kennecott's cost structure probably will not support such

an operation.

"Today, I would have to say [underground mining] is not an option,"

The price of copper at about 72 cents per pound in real terms is the lowest since the Civil War.

Kennecott produces about 320,000 tons of copper a year. Last year, it tons of copper a year. Last year, it earned only a 3.2 percent return, or \$100 million from \$3.2 billion invested. "We are going to have to demonstrate [to Rio Tinto] we can do better than that," Farmer said. "We must get our cert down." our costs down.'

After warning in February that

costs could force cutbacks, Kennecott in May took another step in its longterm cost-cutting program. It announced plans to lay off 205 hourly and 30 salaried workers at its north concentrator in Magna. The cutback represents about 10 percent of Kennecott's 2,300 employees and will begin at the end of July.

Future employment levels at Kennecott, while far short of the 8,000 workers the company employed in the early 1970s, should remain relatively constant although some jobs may be lost once underground min-ing begins. "If we convert to a block caving method, we'll need slightly fewer workers although it will not be anything dramatic," Kennecott spokesman Louis Cononelos said.

There are few signs of any major increase in the price of copper on the horizon, said John Gross, publisher of *The Copper Journal*.

Copper sheets, known as cathodes.

are piling up in warehouses around Inventories

See KENNECOTT, Page E-5

SL tribune July 1, 2001

### wning ritain

Looks to Kennecott The Future

## Continued from E-1

at the start of the year. year to a record 160,648 tons. more than doubled so far this York Mercantile Exchange Comex division of the New warehouses monitored by the Inventories stood at 65,593 tons

a little stronger than anticipat ed," Gross said. "Production is still running

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Collahuasi copper mine another 1,065 jobs in the state Mexico and could eliminate said it would eliminate about 80 until at least the end of the year Chile recently was put on hold And a planned expansion of the jobs at one of its mines in New copper producer, last month

bound, said David Gulley, se ucts ranging from automobiles to computer chips and electri PricewaterhouseCoopers the economy is ready for a re movement often signals when cal transmission lines, its price nior metals With copper used in prod economist

nomic slowdown," Gulley said. metals to make it out of an eco "It is usually one of the first

said the price of copper could stock market sell-off, Gulley around a year after a major torically starting to recover next spring provided the counbegin to turn around sometime blown recession. try doesn't slip into a full And with metal prices his

covery in the price of copper to control — our costs." necott cannot count on a reto concentrate on what we can isn't going to save us. We have boost its long-term fortunes. "My feeling is the metal price Farmer, however, says Ken

five years — from 2007 to 2012 derground, it will take about If Kennecott is to mine un-And time is running short.

will have to begin as early as body. Engineering studies also mine and "prove out" the ore will take a couple of years and — to design and construct the

sonable. We should go ahead with this," Farmer said. ready to say, 'Hey, this is rea 2002 or 2003 when we have to be "And that brings us back to

halting growth plans, Gulley said historically the coppermining industry is "fairly famous" for making investments now trimming their payrolls or mines around the world are metal is weak. in mines when the price of the Even though a number of

"While I cannot talk about

counter-cyclical investing has paid off for a lot of copper minthis company ing companies over the years," [Rio Tinto],

ground mining is one of the big remaining tasks before him. ing Kennecott to begin under retire by 2012, he said position-Although Farmer expects to

be the one who says that should people through the taxes it's paid than any other business in its wages and educated more has fed more families through heard it said that Kennecott mortician," Farmer said. "I've the state. And I'm not going to "I'm a mine operator, not a

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